

Amendments to the Claims

1. *(Currently Amended)* VLIW processor comprising:
 - a plurality of functional units ~~(1, 3, 5, 7)~~;
 - a distributed register file ~~(9, 11, 13, 15)~~ accessible by the functional units ~~(1, 3, 5, 7)~~;
 - and a partially connected communication network (17) for coupling the functional units ~~(1, 3, 5, 7)~~ and selected parts of the distributed register file ~~(9, 11, 13, 15)~~;
characterized in that the VLIW processor further comprises communication means (29) for coupling the functional units ~~(1, 3, 5, 7)~~ and the distributed register file ~~(9, 11, 13, 15)~~.
2. *(Currently Amended)* A VLIW processor according to Claim 1 wherein:
the communication means (29) comprise a multiplexer (31) and a bus (33), the multiplexer (31) being arranged for coupling the functional units ~~(1, 3, 5, 7)~~ and the bus (33), the bus (33) being arranged for coupling the multiplexer (31) and the distributed register file ~~(9, 11, 13, 15)~~.
3. *(Currently Amended)* A VLIW processor according to Claim 1 wherein:
the communication means (29) are arranged for communication with a first latency, the partially connected communication network (17) is arranged for communication with a second latency, the first latency exceeding the second latency.
4. *(Currently Amended)* A VLIW processor according to Claim 2 wherein: the bus (33) comprises at least one pipeline register (35).
5. *(Currently Amended)* A VLIW processor according to Claim 2 wherein:
the multiplexer (31) comprises at least one register.
6. *(Currently Amended)* A VLIW processor according to Claim 1, comprising a first plurality ~~(101)~~ of functional units ~~(105, 107)~~ and a second plurality ~~(103)~~ of functional units ~~(109, 111, 113)~~;

a first pass unit (171) associated with one (107) of the functional units (105, 107) of the first plurality (101) for passing data from one (121) of the distributed register files (115, 117, 119, 121) associated with the first plurality (101) of functional units to one of the distributed register files (123, 125, 127, 129, 131, 133) associated with the second plurality (103) of functional units (109, 111, 113);

and a second pass unit (173) associated with one (113) of the functional units (109, 111, 113) of the second plurality (103) for passing data from one (133) of the distributed register files (123, 125, 127, 129, 131, 133) associated with the second plurality (103) of functional units to one of the distributed register files (115, 117, 119, 121) associated with the first plurality (101) of functional units (105, 107);

7. (*Currently Amended*) A VLIW processor according to Claim 6 wherein:

the pass units (171, 173) are part of the respectively associated functional units (107, 113).

8. (*Currently Amended*) A VLIW processor according to Claim 1 wherein:

the communication means (29) couple the functional units (1, 3, 5, 7) and all parts of the distributed register file (9, 11, 13, 15).